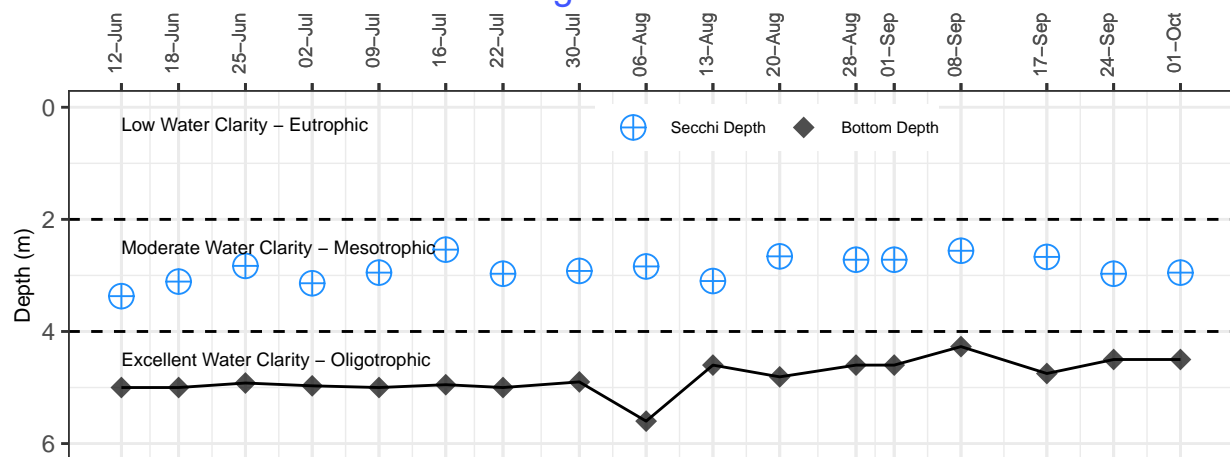
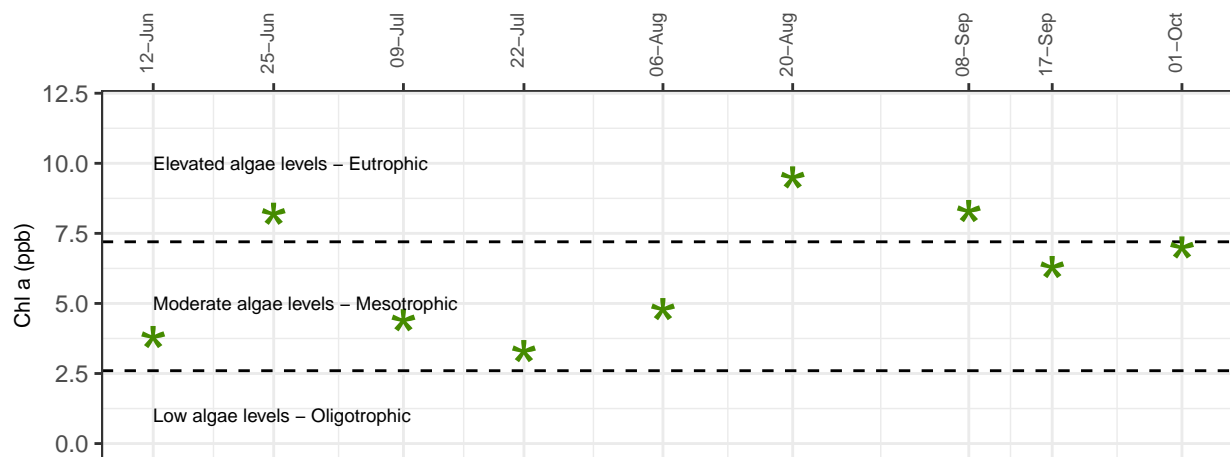


Pascoog Reservoir 2020

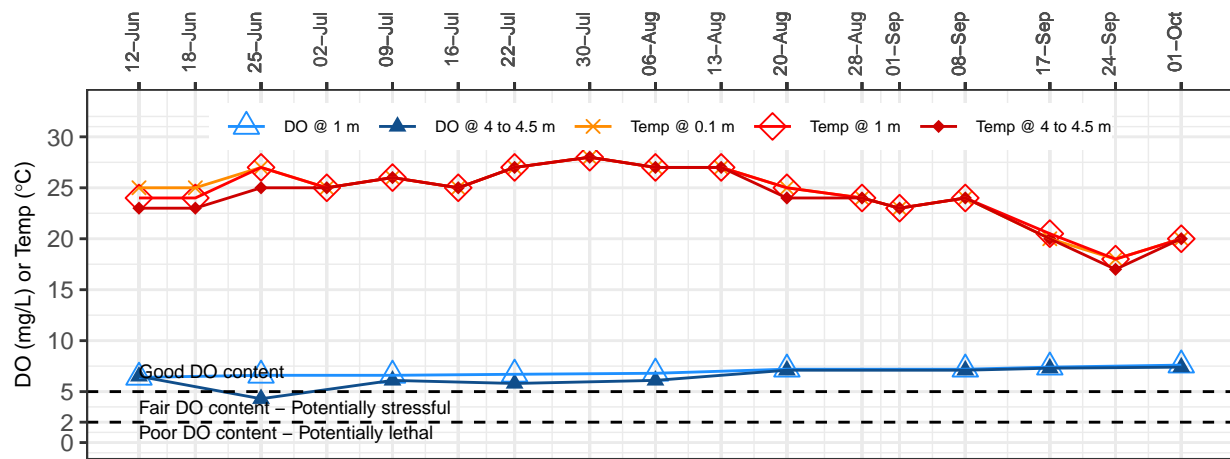
Water Clarity



Chlorophyll



Temperature/Dissolved Oxygen



2020 PASCOAG RESERVOIR/ECHO LAKE DATA

Station	JUN	JUL	AUG	SEP	OCT	Summary
<i>Bottom waters with higher nutrient levels than 1-meter samples indicate internal cycling of nutrients and potentially unstable water quality conditions.</i>						
----- Total Phosphorus (ppb) -----						Mean
Pascoag Res.@ 1 m	11	15	-	13	-	13
Pascoag Res.@ ≥ 4.0 m	18	19	-	15	-	17
<i>Low < 12 ppb; Moderate 12 to 24 ppb; Elevated 25 to 67 ppb; RIDEM lake max 25 ppb TP</i>						
----- Dissolved Phosphorus (ppb) -----						Mean
Pascoag Res.@ 1 m	5	5	-	7	-	6
Pascoag Res.@ ≥ 4.0 m	6	5	-	5	-	5
----- Total Nitrogen (ppb) -----						Mean
Pascoag Res.@ 1 m	351	276	-	436	-	354
Pascoag Res.@ ≥ 4.0 m	1064	492	-	629	-	728
<i>Low TN < 350 ppb; Moderate TN 350 to 750 ppb; Elevated TN > 750 ppb</i>						
----- Nitrate-Nitrogen (ppb) -----						Mean
Pascoag Res.@ 1 m	< 15	17	-	< 15	-	6
Pascoag Res.@ ≥ 4.0 m	24	421	-	16	-	153
<i>Limit of Detection = 15 ppb; Mean determined with half that (7.5 ppb) for < 15</i>						
----- Ammonia-Nitrogen (ppb) -----						Mean
Pascoag Res.@ 1 m	34	< 15	-	17	-	17
Pascoag Res.@ ≥ 4.0 m	75	160	-	44	-	93
<i>Limit of Detection = 15 ppb; Mean determined with half that (7.5 ppb) for < 15</i>						
----- Chlorides (ppm) -----						Mean
Pascoag Res.@ 1 m	19	-	-	-	-	-
Pascoag Res.@ ≥ 4.0 m	21	-	-	-	-	-
<i>Chlorides measured in spring and fall to assess the impact from winter road salt use</i>						
----- Enterococci (per 100 mLs) -----						Maximum
Pascoag Res.	2	1	-	-	-	2.0
<i>RI Health Standard for Recreational Contact: Maximum 60 Enterococci per 100 mLs</i>						
----- pH -----						Minimum
Pascoag Res.@ 1 m	6.6	6.5	-	7.1	-	6.5
Pascoag Res.@ ≥ 4.0 m	6.9	6.3	-	6.7	-	6.3
<i>pH of 6 to 9 considered normal</i>						
----- Alkalinity (mg/l CaCO₃) -----						Minimum
Pascoag Res.@ 1 m	4.2	4.6	-	8.4	-	4.2
<i>USEPA Alkalinity Classification: Acidified < 1 ppm with pH < 5.0; Critical < 2 ppm; Endangered 2 to 5 ppm; Highly Sensitive 5 to 10 ppm; Sensitive 10 to 20 ppm; Not Sensitive > 20 ppm</i>						